CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

- 1. (Currently Amended) A filter for a carcinogen reduction, the filter comprising:
 - a filtering surface operable to filter carcinogen-containing material; and a carcinogen-reducing amount of crosslinked nucleic acid, wherein the nucleic acid comprises apurinic acid.
- 2. (Original) The filter of Claim 1, wherein the nucleic acid is distributed on the filtering surface.
- 3. (Original) The filter of Claim 2, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
- 4. (Original) The filter of Claim 1, wherein the nucleic acid provides structural support to the filter.

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- 5. (Original) The filter of Claim 1, wherein the filter comprises at least approximately 80% nucleic acid by weight.
 - 6. (Cancelled)
 - 7. (Cancelled)
 - 8. (Cancelled)

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9. (Cancelled)

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10. (Currently Amended) A filter for carcinogen reduction in tobacco smoke, the filter comprising:

a filtering surface operable to filter carcinogen-containing tobacco smoke; and a carcinogen-reducing amount of crosslinked nucleic acid, wherein the nucleic acid comprises apurinic acid.

- 11. (Original) The filter of Claim 10, wherein the nucleic acid is distributed on the filtering surface.
- 12. (Original) The filter of Claim 11, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
- 13. (Original) The filter of Claim 10, wherein the nucleic acid provides structural support to the filter.
- 14. (Original) The filter of Claim 10, wherein the filter comprises at least approximately 80% nucleic acid by weight.
 - 15. (Cancelled)
 - 16. (Cancelled)
 - 17. (Cancelled)
 - 18. (Cancelled)

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9-57. (Cancelled)

- 58. (Previously Presented) The filter of Claim 1, wherein the crosslinked nucleic acid further comprises a crosslinking bond selected from the group consisting of: hydrogen bonds, ionic and covalent bonds, $\pi\pi$ bonds, van der Wals forces, and any combinations thereof.
- 59. (Previously Presented) The filter of Claim 10, wherein the crosslinked nucleic acid further comprises a crosslinking bond selected from the group consisting of: hydrogen bonds, ionic and covalent bonds, $\pi\pi$ bonds, van der Wals forces, and any combinations thereof.
- 60. (Previously Presented) The filter of Claim 1, wherein the crosslinked nucleic acid further comprises a crosslinking bond of the type produced by UV radiation, esterification, or hydrolysis.
- 61. (Previously Presented) The filter of Claim 10, wherein the crosslinked nucleic acid further comprises a crosslinking bond of the type produced by UV radiation, esterification, or hydrolysis.
- 62. (Previously Presented) The filter of Claim 1, wherein the crosslinked nucleic acid further comprises a crosslinking compound selected from the group consisting of: silica compounds, intercalating agents, neoplastic agents, formaldehyde, formalin, and any combinations thereof.
- 63. (Previously Presented) The filter of Claim 10, wherein the crosslinked nucleic acid further comprises a crosslinking compound selected from the group consisting of: silica compounds, intercalating agents, neoplastic agents, formaldehyde, formalin, and any combinations thereof.
- 64. (Previously Presented) The filter of Claim 1, wherein the crosslinked nucleic acid further comprises a siloxane bridge crosslinking compound.

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- 65. (Previously Presented) The filter of Claim 10, wherein the crosslinked nucleic acid further comprises a siloxane bridge crosslinking compound.
 - 66. (Withdrawn) A filter for a carcinogen reduction, the filter comprising: a filtering surface operable to filter carcinogen-containing material; and a carcinogen-reducing amount of alkylated nucleic acid.
- 67. (Withdrawn) The filter of Claim 66, wherein the nucleic acid is distributed on the filtering surface.
- 68. (Withdrawn) The filter of Claim 67, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
- 69. (Withdrawn) The filter of Claim 66, wherein the nucleic acid provides structural support to the filter.
- 70. (Withdrawn) The filter of Claim 66, wherein the filter comprises at least approximately 80% nucleic acid by weight.
- 71. (Withdrawn) The filter of Claim 66, wherein the nucleic acid comprises purified DNA.
- 72. (Withdrawn) The filter of Claim 66, wherein the nucleic acid comprises apurinic acid.

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73. (Withdrawn) The filter of Claim 66, wherein the carcinogen-containing material comprises a polyaromatic hydrocarbon.

- 74. (Withdrawn) The filter of Claim 66, wherein the carcinogen-containing material comprises at least two carcinogens capable of reacting with nucleic acid.
- 75. (Withdrawn) The filter of Claim 66, further comprising methylated nucleic acid.
- 76. (Withdrawn) The filter of Claim 66, further comprising hemi-methylated nucleic acid. (Withdrawn)
- 77. (Withdrawn) The filter of Claim 66, further comprising ethylated nucleic acid.
- 78. (Withdrawn) A filter for carcinogen reduction in tobacco smoke, the filter comprising:

 a filtering surface operable to filter carcinogen-containing tobacco smoke; and a carcinogen-reducing amount of alkylated nucleic acid.
- 79. (Withdrawn) The filter of Claim 78, wherein the nucleic acid is distributed on the filtering surface.
- 80. (Withdrawn) The filter of Claim 79, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
- 81. (Withdrawn) The filter of Claim 78, wherein the nucleic acid provides structural support to the filter.
- 82. (Withdrawn) The filter of Claim 78, wherein the filter comprises at least approximately 80% nucleic acid by weight.

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- 83. (Withdrawn) The filter of Claim 78, wherein the nucleic acid comprises purified DNA.
- 84. (Withdrawn) The filter of Claim 78, wherein the nucleic acid comprises apurinic acid.
- 85. (Withdrawn) The filter of Claim 78, wherein the carcinogen-containing material comprises a polyaromatic hydrocarbon.
- 86. (Withdrawn) The filter of Claim 78, wherein the carcinogen-containing material comprises at least two carcinogens capable of reacting with nucleic acid.
- 87. (Withdrawn) The filter of Claim 78, further comprising methylated nucleic acid.
- 88. (Withdrawn) The filter of Claim 78, further comprising hemi-methylated nucleic acid.
- 89. (Withdrawn) The filter of Claim 78, further comprising ethylated nucleic acid.
 - 90. (Withdrawn) A filter for a carcinogen reduction, the filter comprising:

 a filtering surface operable to filter carcinogen-containing material; and
 a carcinogen-reducing amount of capped nucleic acid.
- 91. (Withdrawn) The filter of Claim 90, wherein the nucleic acid is distributed on the filtering surface.
- 92. (Withdrawn) The filter of Claim 91, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.

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- 93. (Withdrawn) The filter of Claim 90, wherein the nucleic acid provides structural support to the filter.
- 94. (Withdrawn) The filter of Claim 90, wherein the filter comprises at least approximately 80% nucleic acid by weight.
- 95. (Withdrawn) The filter of Claim 90, wherein the nucleic acid comprises purified DNA.
- 96. (Withdrawn) The filter of Claim 90, wherein the nucleic acid comprises apurinic acid.
- 97. (Withdrawn) The filter of Claim 90, wherein the carcinogen-containing material comprises a polyaromatic hydrocarbon.
- 98. (Withdrawn) The filter of Claim 90, wherein the carcinogen-containing material comprises at least two carcinogens capable of reacting with nucleic acid.
- 99. (Withdrawn) A filter for carcinogen reduction in tobacco smoke, the filter comprising:

 a filtering surface operable to filter carcinogen-containing tobacco smoke; and a carcinogen-reducing amount of capped nucleic acid.

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- 100. (Withdrawn) The filter of Claim 99, wherein the nucleic acid is distributed on the filtering surface.
- 101. (Withdrawn) The filter of Claim 100, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.

- 102. (Withdrawn) The filter of Claim 99, wherein the nucleic acid provides structural support to the filter.
- 103. (Withdrawn) The filter of Claim 99, wherein the filter comprises at least approximately 80% nucleic acid by weight.
- 104. (Withdrawn) The filter of Claim 99, wherein the nucleic acid comprises purified DNA.
- 105. (Withdrawn) The filter of Claim 99, wherein the nucleic acid comprises apurinic acid.
- 106. (Withdrawn) The filter of Claim 99, wherein the carcinogen-containing material comprises a polyaromatic hydrocarbon.
- 107. (Withdrawn) The filter of Claim 99, wherein the carcinogen-containing material comprises at least two carcinogens capable of reacting with nucleic acid.

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